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SCIENCE GRAD. TELLS OF LIFE IN NORTH SEA

Lieut. Charles H. Webb, Sci. '15, Commands Torpedo Boat.

EXCITING EXPERIENCES.

Patrol Ships Sunk by Subs. and Mines are Speedily Replaced.

The Daily is indebted to Dr. F. D. Adams, Dean of the Faculty of Applied Science, for the following interesting letter from Lieut. Chas. H. Webb, Sci. '15, who is now in command of one of the torpedo boats of the British Navy on service in the North Sea.

Dear Dean and Mrs. Adams: You will be wondering why I have not written you before, but I have been too unsettled to write, having no definite information of where I might be next to forward you. We had an exciting trip across the Atlantic convoying troops (Canadian) at the height of the submarine activity. One morning signals were received: "Subs to the left and subs to the right, and mines ahead." I do not think our loyal Canadian boys knew the "panic" of that morning, but I shall not forget it; our Captain (one of H. M. Fast Cruisers), led through the mines with as many seamen as possible on deck, and signalled other ships to follow in the wake. One ship was unfortunate, hit a mine, but was afterwards saved, no lives lost.

On arrival in England I was commanded for "Special Service," and could not return to Canadian Coast. I was sent for a "course" in advanced "Anti-submarine defence," and given a general brush up in gunnery. Then I was drafted for service around the British war zone, after submarines. We had the pleasure of sinking a couple, and our Captain was duly decorated for his zeal. I was borne for instructional duties. From this ship I was appointed to above, which I now command. She is a fast, up-to-date little craft, disguised for anti-submarine defence. Unfortunately submarines have given up our area, it became too much of a "grave-yard" for their operations; we have had no action for months now. We are constantly on the look-out, and have hopes of another bag again very soon. Our sea are spotted with ships, and it would be almost impossible for a submarine to get away once they came to surface. We have a very effective means of making them come up, once we know roughly their position beneath the surface. This has been the cause of our later successes.

I was very fortunate getting command over here; there is such a difference in having an active part in the organization, and being the one to decide whether the ship is to "look pretty," or "be prepared." My crew are a very keen lot, and many a shot we have spread about an ordinary kitchen broom handle. We have got to the stage where we open fire first, and afterwards investigate the cause. It is nice to be "pannicky," at least for our particular duty, and although we are only small, we bite every time we bark, and we have lots of practices with false alarms. My slight discomforts of being cooped up on a very small ship are well repaid with the actuality of war zone service.

We are generally out for three days, and in for one; when in port we have a chance of resting, as sleep at sea is very broken, and our clothes are on practically the whole time on patrol, and we have to snatch what sleep we can, fully prepared for an emergency. It is astonishing how many objects can be mistaken for a periscope in the grey dawn of the North Sea.

One very foggy morning our northerly patrol reported firing to N.E., and went off at full speed to investigate; when we reached the scene it was too late to share the glory. She bagged one of the large new submarines, caught her sinking one of our large colliers. When the torpedo boat arrived on the scene the submarine dived, but we have a special package for such occasions, which nearly always brings the submarine to the surface again. This time it worked very well, and when the submarine came up (unwillingly), a broadside from the T. B. spoilt her chances for another iron cross. We got her confidential books, and rescued three merchant captains they had taken prisoners; seven of the Germans were killed, and the remainder were taken prisoners. We dare not let people ashore know they came from a submarine, or they would not have got through the mob alive.

Looking through my reading matter I discovered your gift book of last year,—a vey serviceable souvenir, and a reminder of your thoughtful kindness to me in Canada.

There are several interesting ad-

(Continued on Page 2.)

WHAT'S ON.

TO-DAY.

1.00 p.m.—Arts '19 Class meeting.
5.15 p.m.—Regular Gym. classes.

COMING.

Jan. 18.—Y.M.C.A. and Y.W.C.A. Skating Party.
Jan. 18.—High School Dance.
Jan. 22.—Lecture by Prof. de Bray on "Belgium."

McGILL SIEGE BATT. HOLDS XMAS DINNER

Ladies Had Carefully Provided All Good Things to Eat.

In a letter received from Gunner Terroux, Arts '18, was enclosed the following account of a Christmas dinner held by the 13th Canadian Siege Battery.

The 13th Siege Battery had its Christmas dinner in Deepcut, and good cheer reigned. The mess-room was gaily decorated with holly and wreaths of red ribbon. The yule-log burned brightly in the fire-place.

The success of this dinner is greatly due to the generosity of the Ladies' Committee of the Battery, who, in these days of want, had shipped over all that could be needed for it.

Towards the end of the dinner, Sergt. Claxton proposed the toast to the King. This was the signal for all din and noise; toasts to the Allies, to the Forces, to Absent Friends, and the Ladies, being given one after another. And many references were made to those at home.

13th Canadian Siege Battery, Christmas, 1917.

Attack under Camouflage.

MENU.

"Oh, Canada!"

Action 6.—H'Ord's O'Oeuvres. Olives Gordeo. W.A.A.C. Pickles.

Change Target.—Soupe de Rat Shorncliffe. Consomme Cumigen. Fine lines of fish shocked by Battery fire. 20 left Shad, Zero frozen Plaice, line Sole.

Correction.—Pas de Poisson "Chad" ou Soles shoe-nail. Red-hot Joints.—Boeuf D'Apecut (overdone or raw).

Concentration Control Orders.— Don't take on more than one "Bumpus" twist. Full army supply is at 7,000. Feathered Creatures.— Noncom. D'Amitol Snipe (one to four.)

Nature of Projectile. — Turkey de Woking Trot (charged with 4 onions.)

Nature of Charge.—Goose Somme flapper (caught by Aeroplane).

Ranging.—Poulin a la Leicester Sq.

Deflection of Vegetables—Sprouting spuds (all boiled 10' and in the jackets left. All Misses Murphy's French fried 50 degrees. Parsnips close shaved.

Let her go Salads.—
13th Combination fire Salad.
Homer first shot Lettuce.
Mac canned 3rd base Capers.
Tich Turner Tomat.
White's has-Beans.
Parsley bad jour.
Smithsonian Pepper avec Murray Pitchard Mayonnaisy and Bustin's Yorkshire Relish.

Switch to Plum Pudding Fritzy Knockout.

Desertations.—No. 1 Crawford Pear Peaches with condensor Cream.

Fleeting opportunity. — R. D. Nuts, Adam's Apples, Eden Figs, Matty Dates, N.C.T. Almonds, Raison de Toes, Piccadily Lemons, Pippin Oranges.

Sweets for the Sweet.—Boulevard Honey Kisses and Carillon Candies.

Coffee de Greecee.
Punch en Messtin Lyd.

Wines.—Auld Mack Scotch, M. T. Burgundy, Union Government Port. Beer Y. F. Quartette B-flat Stout. John Stone Ginger Beer. Cantrell and Cochrane's Dry Pop.

Smokes. — Quebec C.O.O.R. Cigars. Stogies a la Pittsburg Bull. F. O. C. Cigarettes.

TOASTS.

The King .... Sergt. B. B. Claxton.
The Allies .. Gnr. P. A. G. Clarke.
H. M. Overseas Forces, and Navy.. .. .. Gnr. G. H. Heslam.
Absent Friends .. Gnr. E. L. Hughes.
The Ladies .. Corp. B. E. Chadwick.
God Save the King.

"Oh, Canada!"

Oh, Canada! our home, our native land,
True patriot love thou dost in us command,
We see thee rising fair, dear land,
The true north, strong and free,
And stand on guard, oh, Canada,
We stand on guard for thee.

DR. MacLEAN AT CHEMICAL COLLOQUIUM

Explained New Method for Estimating Quantity of Water in Organic Solvents.

ALUMINIUM CHLORIDE METHOD.

Interesting Lecture at Chemistry Building Last Night.

The first paper before the Chemical Colloquim for the present session was read yesterday afternoon by Dr. A. R. MacLean. The subject dealt with was, "The determination of water in Volatile Organic Solvents by the Aluminium Chloride Method."

In a short, historical review, the speaker noted three methods which had previously been used in qualitative and quantitative determinations of water.

Anhydrous copper sulphate will indicate the presence of water in an organic compound, such as ether, but this method is not capable of accuracy, especially with large amounts of water.

The second method depended on the property of anhydrous potassium carbonate of attracting water from chemical compounds. The anhydrous salt is first dried at a temperature of 240 deg. C., for five hours. The liquid to be tested is added and left in contact with the salt for a number of hours. By pouring off the liquid and washing with absolute ether, the potassium carbonate may be dried at about 50 deg. C., and the increase in weight gives the amount of water extracted. The chief drawback to this method is that it is an utter failure in liquids containing over 4 per cent. alcohol. Below this concentration alcohol has no apparent effect.

Another method used with success was acetylene--cuprous chloride of Weaver. The suspected substance was acted upon by calcium carbide, any water present liberating acetylene. This acetylene was immediately converted to cupric carbide by the cuprous chloride present. This method may be applied only to non-volatile liquids.

It is a known chemical fact that aluminium chloride would dehydrate organic solvents of the aromatic group. When attention was turned to the estimation of water in compounds of the benzene series, chemists began to consider the possibility of applying this method for the determination of water in the aliphatic substances. Accordingly a series of experiments were made to determine the action of aluminium chloride on the different classes of substances in the aliphatic series.

When methyl alcohol is brought into contact with AlCl3, no reaction occurs, and the method must be considered a failure in this case.

In the case of ethyl alcohol, however, better results were obtained, and by keeping the temperature constant at 15 deg. C., a fairly stable crystalline substance was obtained. The theoretical formula would be Al2Cl6-2C4H, 0O, and analytical results have been close enough to warrant the acceptance of this formula. The substance is unstable, losing ether and hydrochloric acid in the presence of the most minute quantity of water.

When tested with propyl alcohol the method gave even more gratifying results. In each reaction the presence of water was indicated by a cloudiness in the solution tested, and the quantitative method suggested by the speaker, was the measurement of the depth of this cloudiness by means of a piccnometer.

The meeting closed with a brief discussion.

PROF. DE BRAY LECTURES ON BELGIUM.

The following is the programme of a series of 10 lectures, which are being given by Prof. de Bray, Doctor of Louvain University, in the Arts Building, on the subject of "Belgium," at 7.30 p.m.

1.—January 15: The Country. Its Physical Aspect.

2.—January 22: The Political History of Belgium.

3.—January 29: The Administration and Constitutional Organization of Belgium.

4. February 5: The Races and Languages. The Flemish University Created by the Germans.

5.—February 12: The Industry, Commerce and Agriculture of Belgium before the War. (In the Physics Building.)

6.—February 19: Public Instruction in Belgium.

7.—February 26: Social Laws in Belgium.

8.—March 5: Art and Literature in Belgium.

9.—March 12: Architecture in Belgium. The Irreparable Loss Caused by the War. (In the Physics Building.)

10.—March 19: The Belgian Colonies and the Anglo-Belgian Campaign in Africa. (In the Physics Building.)

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MONTREAL, THURSDAY, JANUARY 17, 1918.

WHAT IS WRONG WITH THE "LIT."?

It is quite a long time since anything was heard concerning activity on the part of the Literary and Debating Society, commonly known as the "Lit." Of course, the holding of the mid-term examinations, coming as it has, immediately after the holidays, has made a considerable break in college life, and the "Lit." may have an ambitious programme in view for the future; still, it seems time for the executive of this really important and worthy society to give us some idea of what they have in store for the members.

Last year was an unusually successful one for the "Lit." in every way, and after the auspicious beginning of this year's activity, those interested were led to expect that 1917-18 would be an improvement on all previous years. Since then, however, nothing has been heard as to the intentions of those in charge. Surely the "Lit." is not to be allowed once more to lapse into the state it was in a couple of years ago.

Every student of McGill who has paid the universal fee is a member of the "Lit." and therefore it is the duty of every one of us to feel interested in its success. There is no earthly reason why the society should not be the most flourishing one at the University, provided a good programme for the year is drawn up and properly adhered to. In past years, certainly, the student body has been largely to blame for the listless manner in which its members supported their Literary Society. But now it is felt that with last season's success behind them, the executive may go ahead in the assurance that they have the full support of the students.

CHRONIC DISBELIEVERS.

There are individuals who accept the opinions of others without weighing them in their own minds. These persons are called intellectual parasites. Then there are individuals who religiously disbelieve anything which comes from others, in an attempt to be original. Between these two sorts of individual, there is the person who adopts from his contact with others such items as seem to be good and discards the chaff. This is the kind of person we like.

Of the two extremes, the intellectual parasite is to be preferred to the man who stubbornly refuses to accept anything which does not originate within his own think tank. To the latter a college education can mean little, for the ideas of professors cannot be transmitted to him; he sheds them like a duck sheds water. He ends his college course a high school man instead of a college man. He has thrown away four years of his life.

Truly original persons are rare. The wise man is the man who can cull the ideas of his associates and unify the adopted ideas for practical use. We can see no great objection to the taking of a master for a model. We must, however, be sure that our model is really a master before we begin placing too much confidence in his acts and opinions.

To copy all from your associates is to be a parrot or a parasite; to copy nothing is to be a fool; to copy judiciously is to be a wise man.—Daily Iowan.

SCIENCE GRAD. TELLS OF LIFE IN NORTH SEA.

(Continued from Page 1.)

ventures I am keeping, with the hopes of perhaps relating to you when the world is once again blessed with peace. Sorry the Censor does not admit of further details now, as I am very tempted, knowing your keen interest.

I am writing this at sea, which is not at all the "azure blue" of seaside advertisements, but a dirty green; the skies have been overcast for days, and in all this atmosphere of battle smoke, it would seem a mockery of pain for it to shine. Through the fog and rain we try to keep a diligent watch for the "hawks" of commerce, and the daily "straffing" of the Press damps neither our faith nor our zeal, when we read that "there is something wrong in the Navy." We of the Ward Room do not worry, and Jack only laughs at the words of a "land lubber," and manages to have his own jokes, even though he has just shot a funnel away from one of his own fleet in the darkness. There are humorous bits that help them to "carry on," and the war is steadily toning down to a matter-of-fact necessity.

We have lost seven of our division since I have been here (I mean seven boats); two by mines, three by submarines, and two in collision, but as fast as they go others replace them to scout over the North Sea.

I have had one slight wound in my leg, but have otherwise been very fortunate, and am quite fit again now. Leave is occasionally granted when our vessel requires repairs, but is not at all easy to get at other times. We hope to go in dock very soon, as it is our turn next. We shall perhaps be fortunate enough to get the "home gathering time" Xmas., but I know it will be a very quiet one for most English people. Most of my male relatives are in France, and we are doing as much as possible to cheer the absent ones.

The Canadian troops have been a splendid example to the Empire; one reads daily of their brave loyalty.

With kindest regards to any enquiring College friends, and best wishes, I remain,

Yours very sincerely,
CHAS. H. WEBB.

SIR WILLIAM'S SON WOUNDED.

Major W. G. Peterson, son of Sir William Peterson, who went overseas with one of the Montreal Highland battalions, has again been wounded, according to a casualty list issued from Ottawa. This is the second time Major Peterson has figured on the casualty lists, the first time being early last summer. His latest wounds were received at Passchendaele, where he was blown into a shell hole and received injuries to his arm and hand. This was the big fight in November, and Sir William has stated that by now he expected that Major Peterson was well on the road to recovery.

WINTER SPORTS AND SOCIAL ACTIVITIES AT MACDONALD ARE NOW IN FULL SWING

Things are Looking up at Macdonald—C. O. T. C. is Carrying on Training — Usual Social Functions are in Progress.

Life at Macdonald College, at the present time, is like a plant in flower. Things are beginning to brighten up. Liveliness is everywhere exhibited. With outdoor sports, such as sleighing, skiing, skating and snowshoeing, who could be otherwise but happy and lively. It is this spirit that makes life at the college well worth living, as it wears away the monotony of studies, which would otherwise develop.

Social, musical and literary evenings are being arranged by the Literary Society. The interclass baseball and basketball schedule is working without a hitch.

The Y. M. C. A. is having its Sunday morning talks as usual. Prayer meetings are being held daily after tea in the Girls' Residence for the boys at the front.

Saturday promises to be one of the busiest and liveliest days we have had in a long time. The Macdonald College Home Economics Club has arranged to have a lecture delivered by Mr. C. E. Saunders, of Ottawa. Mr. Saunders will speak on "Cereals as a Food." As Mr. Saunders is an authority on the subject, there is little doubt but that the lecture will prove interesting, and well worth hearing.

The Girls' Athletic Association has arranged to have the annual basketball game played between the College girls and the "Old" (not in years), girls. The game should be well contested, and one well worth seeing.

The 79th Battery are coming out from town to play a hockey and a basketball game with us. In the afternoon the hockey game will be played. This game promises to be doubly interesting, firstly because this is the first hockey game of the season; and secondly because oen of the players of the 79th Battery was a former M. A. C. hockey star. In the evening the 79th team, captained by Skinner, a former Macdonald man, will play the college team at basketball. Not only Skinner will play for the 79th; Mr. Ness, a Macdonald graduate and also a former member of the faculty, will also play for them. This should make the game a very friendly and interesting one.

The end of the game should bring with it the end of a "perfect day."

The Short Course Household Science Initiation.

All, or nearly all, the Science girls were assembled in the Reception Room of Macdonald College on Monday evening, January 14th, holding a very serious business meeting. In the midst of their business discussions the lights went out, and numerous figures appeared in long white robes with large bright yellow paper bags over their heads, on which were painted grotesque faces.

The poor Short Course Household Science students were put "under arms," a bandage was placed over their [illegible] when they were lead as captives by the Seniors through the corridors and down to the swimming pool, where, in truth, many of the poor Freshies had such vivid imaginations that they felt the waves surging about them.

After the imaginary swim they were lead to the gymnasium, where a cracker dripping with molasses was fed to them. The Freshies had to perform for their Seniors by doing a daring stunt in the air, singing, dancing or reciting; then came the airship plunge.

After being unmasked, the Freshies had to listen to a number of aggravating rules read to them by a Senior.

The toe of a Senior's shoe had to be blackened, and, as an oath of allegiance, kissed by the Freshies while on their knees.

However, the Seniors made up to the Freshies later on in the evening, by giving them a very good feed.

Skating and Snowshoeing at Macdonald.

The skating rink at the College has really been in the making since the early part of December, but it was not until the students had reassembled at College after the Christmas vacation that it was put into use.

Since that time skating has been in full swing. Permission is granted to all the students to indulge in skating each evening after supper till 8 p.m., and the students are, of course, taking full advantage of this opportunity of spending a portion of each evening in healthy and pleasant exercise outdoors. The boys also make the most of the opportunity thus given to them of meeting their "special" girl friends, which is by no means a frequent occurrence.

Up to the present the weather has not materially interfered with skating, and the ice is in almost perfect condition. When, owing to some rather heavy snowfalls, the rink is put into temporary disuse, snowshoeing takes the place of skating to some extent. Snowshoeing parties are organized, and long tramps are taken across the country. The conditions for snowshoeing have been almost ideal during the last few days.

By reason of the existence of these grand winter sports, what could induce a Macdonald student to remain indoors during his periods of leisure except on the most stormy days?

The Bachelors' Club of Macdonald College were at home to their village friends on Saturday evening, the 12th inst., and despite the inclemency of the weather, over one hundred guests were present.

Mrs. F. C. Harrison very acceptably performed the duties of patroness, and was assisted in receiving the guests by Mr. Ricker, the president of the club.

The function was held in the large reception rooms on the second floor of the men's residence, and these were suitably decorated with plants from the college greenhouses for the occasion.

A short programme, consisting of vocal solos by Mr. A. C. Gorham, and Mrs. C. B. Powter, together with a whistling solo by Miss DuBois, of New York, was followed by a series of fifteen dances, all of which were greatly enjoyed by those present.

Course in Musketry at Macdonald.

In connection with the C. O. T. C. work at Macdonald, one period a week is devoted to musketry. In this course the aim is to teach the use of the rifle as a means of attack and defence, as well as its limitations for such purposes. During the first session of the college year the major part of the work has consisted of lectures and demonstrations, in which the essential and important parts of the rifle and its mechanism, the care of the rifle, the theory of rifle fire, kinds of fire, and methods of aiming have been taken up. In the second session a large part of the time will be devoted to target practice and rifle exercises, but along with this will be given more advanced work in the theory of rifle fire and the practical applications of the same.

A musketry room has been fitted up in the basement of the men's building with lights, stands, mats, discs, etc., for testing out the accuracy in sighting and aiming by means of the "Triangle for error," index target practice rods and targets. This makes it that this work can be covered with a high degree of efficiency and fits the men for the more practical target shooting in the best manner possible. A twenty-five yard rifle range fitted with lights, shields, rifle cupboards, rifles and material for the proper care of the same, is also in operation. Here the practical shooting will be in charge of one or more competent instructors, and a complete course designed to bring the men well up to the standards of efficiency required for C. O. T. C. work will be put on.

Apart from the regular course outlined above, special competitions, inter-section, inter-platoon, and practice shoots will be arranged from time to time. These will stimulate interest, result in keen competition, and will tend to raise the standard of efficiency still higher.

Bayonet Fighting and Physical Training Instruction at Macdonald College.

B. F. and P. T. instruction was first commenced at Macdonald College in the fall of 1916. The work seems to be popular with both students and staff, and shows its benefits in improving the general smartness and efficiency of the men. The chief drawback to the course lies in the fact that sufficient time cannot be provided, the men receiving only three-quarters of an hour of B. F. and P. T. each week. In such a course the benefit received does not lie in physical development, but rather in a knowledge of the methods, and to some extent in increased efficiency and smartness.

Because of the fact that the work must be carried on in a gymnasium that is used for many other activities, it is impossible to provide sufficient dummies and other accessories for a complete B. F. course. More stress has therefore been laid on P. T. work, but the B. F. training has also been carried on as far as conditions will allow.

Baseball at Macdonald.

The first interclass game of the New Year was played on Jan. 10, between the Seniors and Freshmen, the latter winning out by a score of 38 to 10. The Seniors were sadly handicapped, having only five available players, while on the other hand the Freshmen had 27 players to choose from.

The game was slow, as the score would indicate, the Freshies bringing in runs almost at will. Bob Reid, the Senior pitcher, was batted out of the box, being replaced by Fred Kinsman, who did remarkably well, showing a surprising lot of speed. Taylor, the star outfielder of the Seniors, did good work, both in the field and at bat.

Although the game was rather one-sided, some good baseball was played. We must make allowance for the poor showing of the Seniors, as many of their best athletes are now fighting in France.

FORMER SCI. '18 MAN IN R. F. C.

In the recent list of officers gazetted as Flying officers, is the name of Lieut. Hugh P. Ilsley, Sci. '18. He is a son of P. J. and Mrs. Ilsley, 134 Chandeboye Ave., Westmount. Lieut. Ilsley enlisted with the 148th Battalion under Lieut.-Col. Magee, and while in England he was transferred to the Royal Flying Corps. A brother, Lieut. C. W. Ilsley, is at present at the front with the Montreal Highland unit.

Lehigh University and Pennsylvania State College will play the first of their two basketball games this evening. The other game will be played at Bethlehem on Feb. 2.

UNCLAIMED LETTERS.

The following is a list of unclaimed letters in the Registrar's Office:

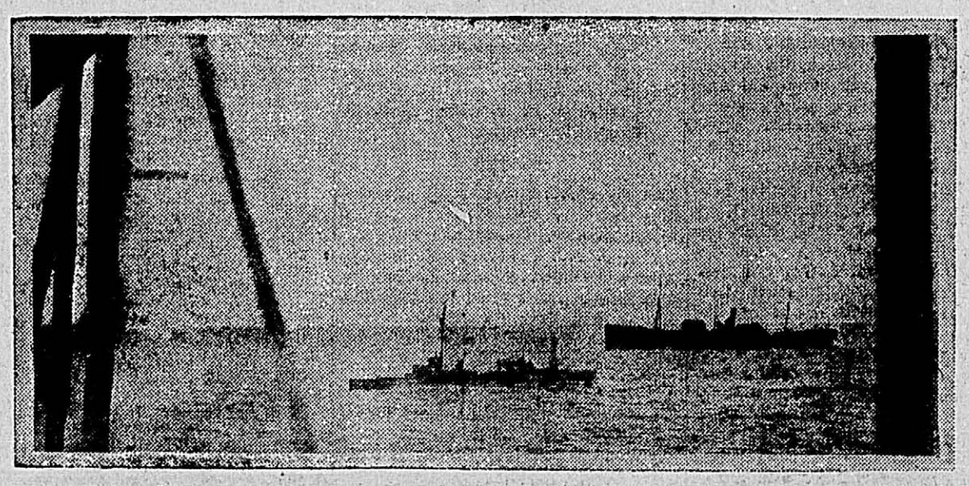
Bailey, Prof. A. (book).
Brown, Miss F.
Cochrane, John.
Gordon, Miss J. (care Miss M. Chisholm).
Henderson, Lieut. G. H.
MacDougall, James A.
McLennan, Prof. J. C.
Potter, A.
Poulin, Dr. F. L.
Rotchilds, M.
Whitby, G. S.

The Registrar would be glad if students, or others, who know the present address of any of the above-named, would notify him of the same.

COAL CONSERVATION.

Actual want of any commodity provides the most direct appeal possible for its conservation. The use of electricity, instead of steam, on those portions of Canada's railways adjacent to water-powers would materially reduce our dependence on the United States for coal. In 1916, the railways of Canada used 8,995,000 tons of coal, or about 61 per cent. of our total production. In fact, the increased price of coal may soon compel us to use hydro-electric energy extensively as a railway motive power.

ON THE WATCH.



A remarkable picture taken from a French Seaplane, acting as scout for the destroyer in the foreground, and its convoy, a munitions ship. From above, the seaplane can detect a submarine at great depth, and immediately signals the spot to the destroyer, when both combine in an attack. Parts of the seaplane, from which the photograph was made, show clearly in the foreground.

The Royal Military College of Canada.

THERE are few national institutions of more value and interest to the country than the Royal Military College of Canada. Notwithstanding this, its object and the work it is accomplishing are not sufficiently understood by the general public.

The College is a Government Institution, designed primarily for the purpose of giving instructions in all branches of military science to Cadets and Officers of the Canadian Militia. In fact, it corresponds to Woolwich and Sandhurst.

The Commandant and military instructors are all officers on the active list of the Imperial army, lent for the purpose, and there is in addition a complete staff of professors for the civil subjects which form such an important part of the College course. Medical attendance is also provided.

Whilst the College is organized on a strictly military basis the cadets receive a practical and scientific training in subjects essential to a sound modern education.

The course includes a thorough grounding in Mathematics, Civil Engineering, Surveying, Physics, Chemistry, French and English.

The strict discipline maintained at the College is one of the most valuable features of the course, and in addition, the constant practice of gymnastics, drills and outdoor exercises of all kinds, ensures health and excellent physical condition.

Commissions in all branches of the Imperial service and Canadian Permanent Force are offered annually.

The diploma of graduation is considered by the authorities conducting the examination for Dominion Land Surveyor to be equivalent to a university degree, and by the Regulations of the Law Society of Ontario, it obtains the same exemptions as a B.A. degree.

The length of the course is three years in three terms of 9½ months each.

The total cost of the course, including board, uniform, instructional material, and all extras is about $900.

The annual competitive examination for admission to the College, takes place in June of each year, at the headquarters of the several military districts.

For full particulars regarding this examination and for any other information, application should be made to the secretary of the Militia Council, Ottawa, Ont., or to the Commandant, Royal Military College, Kingston, Ont.

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The Mining Law gives absolute security of Title and is very favourable to the Prospector.

MINERS' CERTIFICATES.

First of all, obtain a miner's certificate, from the Department in Quebec, or from the nearest agent. The price of this certificate is $10.00, and it is valid until the first of January following. This certificate gives the right to prospect on public lands and on private lands, on which the mineral rights belong to the Crown.

The holder of this certificate may stake mining claims to the extent of 300 acres.

WORKING CONDITIONS.

During the first six months following the staking of the claim, work on it must be performed to the extent of at least twenty-five days of eight hours.

SIX MONTHS AFTER STAKING.

At the expiration of six months from the date of the staking, the prospector, to retain his rights, must take out a mining license.

MINING LICENSE.

The mining license may cover 40 to 200 acres in unsurveyed territory. The price of this license is Fifty Cents an acre per year, and a fee of $10.00 on issue. It is valid for one year, and is renewable on the same terms, on producing an affidavit that during the year work has been performed to the extent of at least twenty-five days' labor on each forty acres.

MINING CONCESSION.

Notwithstanding the above, a mining concession may be acquired at any time at the rate of $5.00 an acre for SUPERIOR METALS, and $3.00 an acre for INFERIOR MINERALS.

The attention of prospectors is specially called to the territory in the North-Western part of the Province of Quebec, north of the height of land where important mineralized belts are known to exist.

PROVINCIAL LABORATORY.

Special arrangements have been made with the POLYTECHNIC SCHOOL of LAVAL UNIVERSITY, 228 ST. DENIS STREET, MONTREAL, for the analysis of minerals at very reduced rates for the benefit of miners and prospectors in the Province of Quebec. The well equipped laboratories of this institution and its trained chemists ensure results of undoubted integrity and reliability.

The Bureau of Mines at Quebec will give all the information desired in connection with the mines and mineral resources of the Province, on application addressed to

HONORE MERCIER,
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"T. B. P."

RE-BUILDING OF HALIFAX IS IMPORTANT

Nearly Eight Hundred Houses Are Destroyed.

5,000 PARTLY INJURED.

Nine Thousand Inhabitants Said to be Homeless as Result of Disaster.

The following extract from the preliminary report on Halifax of Mr. Thomas Adams to the Commission of Conservation may be of considerable interest to some of our readers, in view of the fact that many students of McGill have relatives and friends dwelling in the devastated city.

The great calamity that has befallen Halifax, has brought about new conditions and entirely changed the whole aspect of the problems to be dealt with. As a result of the calamity a serious effort should be made to prepare a sound scheme of development worthy of the city. There is now a great opportunity to improve the industrial facilities and housing conditions of Halifax. We may thereby get considerable benefit to the city, and to Canada, to off-set the material losses sustained in the disaster.

A hurried inspection of the devastated area showed the importance and urgency of the problems to be dealt with. Immediate expropriation has been suggested, but this is not desirable until after full investigation; and until the principles on which provision may be made for indemnifying those who have lost their property are settled.

Problems Created by the Disaster.

From investigations made, it appears that about 794 residences and other private buildings have been completely destroyed; 337 partially destroyed, and 394 injured to an extent from 15 per cent. to 30 per cent. of their former value. In addition about 5,000 buildings in the city have been injured in part. About 1,500 buildings will have to be rebuilt in the whole city to accommodate the homeless population, numbering about 9,000 persons. The difficulty and expense of providing this re-housing arises from the fact that the greater number must be accommodated twice over. Temporary buildings must be erected immediately to shelter them during the coming year, and until permanent buildings are erected.

Of the 9,000 who are said to be homeless, 1,000 are in hospitals, while about 8,000 others are in temporary lodging in public buildings, are guests in private houses, or have left the city.

In any question of re-housing these people, consideration should be given to their weakened vitality, as the result of the shock and injuries they may have received.

Extent of Financial Loss.

The extent of the financial loss cannot be computed, but some general estimate may be made of the cost of re-instating the homeless population. Many of the buildings destroyed were flimsy in construction, and, if proper steps were taken to erect more permanent homes, the city might reap some economic advantage from the disaster. To provide temporary housing for 9,000 people, even with the assistance of the Militia Department, and to rebuild their homes or erect others in lieu of those destroyed, and to repair the injuries to other buildings, may mean an expenditure of $6,000,000. This will be apart from the heavy expense to be incurred by the Federal Government and the city of Halifax in re-instating public buildings, railway rolling stock, etc., and also apart from the large expense which will be involved in providing for the maintenance of the permanently injured and the re-adjustment of business which has been temporarily dislocated.

First Steps to be Taken.

There are three steps which should be taken at once, apart from the erecting of temporary houses, and the repairing of buildings. The first is to prescribe an area to the north of North street, in which no new buildings may be erected for a definite period, to enable proper plans to be prepared and also to permit of the work of clearing up the debris to be carried out. Exceptions to this may, however, be permitted in the case of the temporary houses to be erected by the reconstruction committee, and, of course, in respect to any public works that are necessary in connection with naval and railway works.

The second duty will be to apply as much labour as possible to the clearing up of the debris on the devastated area, so that on the arrival of spring everything will be in readiness to commence the new development.

The third duty is to establish a small commission representative of the Federal, Provincial and City Governments, to prepare a plan of development and control the expenditure of relief funds, other than the ordinary revenues of the city, during the two or three years which will be necessary for reconstruction, and for settlement of the problems created by the disaster.

The following matters of importance need attention in any scheme of re-development:

1.—The improvement of the railway facilities, so as particularly to serve the industrial development of Halifax and neighbourhood.

2.—The increase of suitable industrial sites, available for erection of factories and warehouses, in proximity to the harbour and railways, so far as this can be obtained in the northern part of the city, with due regard to the undulations of the land and the requirements of the naval and railway authorities.

3.—The improvement of the road approaches to the city from the north, and the lessening of the grades of the principal streets in the northern part of the city;

4.—The linking up of the existing streets, sewers and water mains with any new scheme of development, so as to secure the minimum loss to the city.

JEST TALK

—By Jello

UNFORTUNATE TIME.

"When I left college I didn't owe anyone a cent."

"Dear me, what an unfortunate time to leave!"

THE ZERO.

Is this a Zero that I see before me?
Its egg-shaped circle near my name?
Come, let me clutch thee!
I have thee not, and yet I see thee still.
Art thou not, fatal zero, sensible
To feeling as to sight? Or art thou but
A zero of the mind, a false creation
Proceeding from the heat-oppressed brain?
(Of a Chem. Stude.)
I see thee yet in form as palpable
As this which now he* draws.
Note—*The Prof.

QUITE APPARENT.

"Her new evening gown is a dream."
"Yes, it is a bit intangible."

REALLY.

A reporter who kept dynamite
Touched a match to a fuse one sad nite,
As he sailed through the air,
Angels heard him declare:
"What a story I'll write when I lite."

DETHRONED.

Lorenzo: A year ago you said I was your king!

Florenzo: But we're establishing republics now.

SO WE'VE HEARD.

He: "Why does she remind you of the Arts Building in winter"?

We bite: "Why?"

He: "Because of her icy stares."

Their meeting it was sudden,
Their meeting it was sad;
She sacrificed her sweet young life,
'Twas all the life she had.
She sleeps beneath the daisies fair,
In peace she's resting now.
Oh, there's always something doing
When a freight train meets a cow.

ART NOTES.

How to draw a wagon: Hire a horse.

A dignified Junior, named Ash,
Was trying to raise a moustache,
When he went to a dance
The girls looked askance
For they thought it was some kind of rash.

UNSOUND.

Hazel: What's the matter with that man? Has he got the St. Vitus's dance?

Nazel: Nope, that's a deaf and dumb man talkin' and he stutters.

R. V. C. NOTES.

The sixth reunion of the season of the Alliance Francaise will be held to-day, at 8.15 p.m., in the Ritz-Carlton Hotel. M. Le Capitaine Eugene Dutholt, Professeur a l'Universite Catholique de Lille, will deliver an address on "L'Ancien Royaume Francais de Jerusalem."

HIGH SCHOOL DANCE.

A dance will be held in the High School, University Street, at 8 p.m., Friday, for the benefit of Returned Soldiers. Any student desiring same may purchase his ticket from Mr. Culyer, at the Union. The price is 50 cents per couple.

NOTICES

HOCKEY ELECTIONS.

The various years are asked to see to the election of hockey representatives as soon as possible, in order that a meeting may be held early next week to allot practice hours at the Campus Rink.

ARTS '19 MEETING.

There will be a class meeting of Arts '19 in the Smoking Room at 1.00 p.m. Business for discussion will be arranging for hockey hours.

The Y. M. C. A., acting in conjunction with the Y. W. C. A., will stage their first skating party on the Campus Rink on Friday evening, Jan. 18th. The event is being carefully prepared by the committee in charge. It will be conducted after the usual manner of these popular functions, and every effort is being made to assure a pleasant evening.

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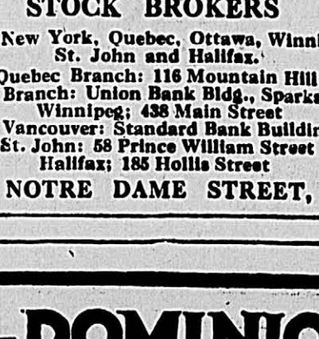

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TRIBUTE RENDERED TO CAPT. GOLDIE ANDERSON

High Praise Given Science Man by Commander in Letter.

Capt. Anderson, 90th Field Company, Royal Engineers, who was reported missing at Longueval and Delville Wood since July 19, 1916, was a son of Mr. and Mrs. R. F. Anderson, Burnaby Lake, and a native son of New Westminster, having been born here on Aug. 28, 1889. His Military Cross, won in June, 1916, was presented to his father by His Excellency the Governor-General at Hastings Park on Nov. 28 last.

Graduating in Science from McGill University, Montreal, in the class of 1910, Mr. Anderson was engaged on the mountain division of the C.P.R., and in 1913 was made engineer in charge of surveys of the Coteau power project for the C.N.R. in the Okanagan district. In the fall of 1914 he went to McGill for a post graduate course. During the winter he took an active part in the college military training, and in the spring of 1915 went over to London, and joined the colors, being granted a commission in the Royal Engineers. After a three-months' training course at Chatham, he was attached to the 90th Field Company in France, and was actively engaged in the service at Ypres, Loos, and Armentieres. In June, 1916, he was promoted to captain, and awarded the Military Cross for gallantry in action and devotion to his duties. Early in the Somme advance the brigade saw hard service; the Major was wounded on the 13th, and Capt. Anderson took command, and was acting-major when reported missing on July 19th. It was thought that he might be a prisoner, probably wounded, but all efforts failed to find him in prison camps or hospitals in Germany. In February, 1917, the War Office finally advised that owing to lapse of time they were regretfully constrained to conclude that he had been killed.

Major Smythe, in command, writes as follows: "I ought to have written to you months ago, but somehow I could not bring myself to do it. I thought I was hardened to having my friends wiped out but when it came to Goldie it was not so. We had served together for nearly a year, and one gets to know people well in this business. I don't believe there was ever a finer officer than your son. He had plenty of ability, worked desperately hard, and the hotter the situation the cooler he was. I believe he did extraordinarily well in Longueval after I was hit, and if he had lived he would probably have got a D.S.O. I feel his absence every day, as he was worth fifty men to me. He got the hard jobs to do, and always put them through."

Mrs. Anderson has received the following letter from Buckingham Palace under date of March 21, 1917: "Dear Madam,—The King and Queen have heard with deep regret that the death of your son in the services of his country is now presumed to have taken place in 1916. I am commanded to convey to you the expression of Their Majesties' sympathy with you in your sorrow, and to assure you that during the long months of uncertainty Their Majesties' thoughts have been constantly with you and those who have been called upon to endure this exceptional burden of anxiety."—From "The British Columbian," Dec. 25th, 1917.

"LET'S WIN THE WAR."

CONSERVATION BREAD DATA.

A series of experiments in baking bread with unusual flours, conducted in the Home Economics Department of the University of Kansas, is reported in the American Food Journal, with photographs of breads, as follows: All wheat, 25 per cent. rye, 50 per cent. rye, 75 per cent. rye, 50 per cent. rye and 50 per cent. oat, 15 per cent. oat, 25 per cent. oat, 33 per cent. oat, 50 per cent. oat, 75 per cent. oat, 15 per cent. barley, 25 per cent. barley, 33 per cent. barley, 50 per cent. barley, 75 per cent. barley, 15 per cent. rice, 25 per cent. rice, 33 per cent. rice, 15 per cent. kafir corn, 25 per cent. kafir corn, 33 per cent. kafir corn, 25 per cent. flour, 25 per cent. corn meal, 25 per cent. graham. Corn meal and rye flour were procured in the market with ease. Corn flour was not so readily obtainable, and barley, rice, oat and kafir corn flours could not be purchased in the open markets, so for experimental purposes they were ground in a small spice mill, driven by a one-half horsepower electric motor.

"Meatless day" is observed at the company restaurant in the Swift packing plant at Chicago by the service of oysters, fish, beans, cheese, mushrooms, fruit, vegetables and eggs; and "wheatless day," with rye, corn and graham bread.

For the retail grocer and butcher just now, it is good war service, and good business, to establish a cheese department. Our present stocks of cheese are large, and prices have not advanced in keeping with other food staples. A good market is needed in this product, not only to furnish nutritious substitutes for meat and fat, but to prevent falling off in cheese production, which is likely to follow under-consumption.

The average daily consumption per capita of cheese in this country is represented by a piece about large enough to bait a mouse trap. In the wide modification of national diet necessitated by war this average should be brought up in keeping with cheese consumption in Europe, where the food value of such products has long been recognized.

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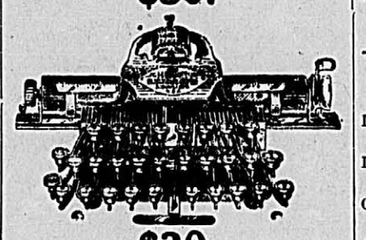

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May make a life the brighter,
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God help me speak the little word,
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